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DATE MAILED: 12/10/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/728,562	12/05/2003	Robert R. Alfano	5250-7	8886
75	12/10/2004		EXAMINER	
Kent H. Cheng, Esq.			JACKSON JR, JEROME	
Cohen, Pontani, Lieberman & Pavane Suite 1210			ART UNIT	PAPER NUMBER
551 Fifth Avenue			2815	
New York, NY 10176			DATE MAIL ED: 12/10/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

			A)e/
	Application No.	Applicant(s)	10
	10/728,562	ALFANO ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jerome Jackson Jr.	2815	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	h the correspondence addi	ress
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a  - If NO period for reply is specified above, the maximum statutory peri  - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re reply within the statutory minimum of thirty iod will apply and will expire SIX (6) MONT itute, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this com  ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
· ·	his action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	· • • • • • • • • • • • • • • • • • • •		ments is
Disposition of Claims			
4) ☐ Claim(s) <u>1-36</u> is/are pending in the application 4a) Of the above claim(s) is/are without 5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) <u>1-36</u> are subject to restriction and/	drawn from consideration.		
Application Papers			
9) The specification is objected to by the Exam			
10) The drawing(s) filed on is/are: a) a  Applicant may not request that any objection to t			
Replacement drawing sheet(s) including the con	• • • • • • • • • • • • • • • • • • • •	i i	R 1 121(d)
11) The oath or declaration is objected to by the	, -,	•	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore  a) All b) Some * c) None of:  1. Certified copies of the priority docume  2. Certified copies of the priority docume  3. Copies of the certified copies of the papplication from the International Bur  * See the attached detailed Office action for a	ents have been received. ents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National S	itage
Attachment(s)	_		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) )/Mail Date	
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date</li> </ol>		formal Patent Application (PTO-	152)

Application/Control Number: 10/728,562

Art Unit: 2815

This application contains claims directed to the following patentably distinct species of the claimed invention:

- 1. a p type layer of claim 1 consisting of a single layer of III-nitride material.
- 2. a p type layer of claim 1 consisting of a single layer lattice matched to III-nitride
- 3. a p type layer of claim 1 consisting of multiple layers of III-nitride.
- 4. a n type layer of claim 1 consisting of a single layer of III-nitride material.
- 5. a n type layer of claim 1 consisting of multiple layers.
- 6. quantum well layers are polar.
- 7. quantum well layers are non-polar.
- 8. said window layer has a particular bandgap.
- 9. said window layer is positioned close to the illuminating side.
- 10. said infrared emitter emits photons created by relaxation...
- 11. said infrared emitter emits photons 20meV-1.3 eV.
- 12. said infrared emitter emits M infrared photons...
- 13. claim 31 specific structure.
- 14. claim 33 specific structure.
- 15. claim 35 specific structure.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claim 1 is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims

readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Art Unit: 2815

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Jackson Jr. whose telephone number is 571 272 1730. The examiner can normally be reached on t-th 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 571 272 1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

jj

PRIMARY EXAMINER

JEROME JACKSON PRIMARY EXAMINER